

HAER No. HI-36

U.S. Naval Base, Pearl Harbor, Wharf S-21  
(U.S. Naval Base, Pearl Harbor, Naval Submarine Base)  
Hurt Avenue at the northwest side of Magazine Loch  
Pearl Harbor  
Honolulu County  
Hawaii

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**PHOTOGRAPHS**

**WRITTEN HISTORICAL AND DESCRIPTIVE DATA**

Historic American Engineering Record  
National Park Service  
Department of the Interior  
San Francisco, California

HISTORIC AMERICAN ENGINEERING RECORD

U.S. Naval Base, Pearl Harbor, Wharf S-21  
(U.S. Naval Base, Pearl Harbor, Naval Submarine Base)

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Location: Hurt Avenue at the northwest side of Magazine Loch  
Naval Base Pearl Harbor  
Honolulu County  
Hawaii

USGS Pearl Harbor Quadrangle, Hawaii  
7.5 minutes series (orthophotoquad)  
Universal Transverse Mercator coordinates  
4.609120.2362380 (Scale 1:24,000)

Date of Construction: 1944

Present Owner: U.S. Naval Submarine Base

Present Use: Wharf S-21 is used for berthing and repair of submarines.

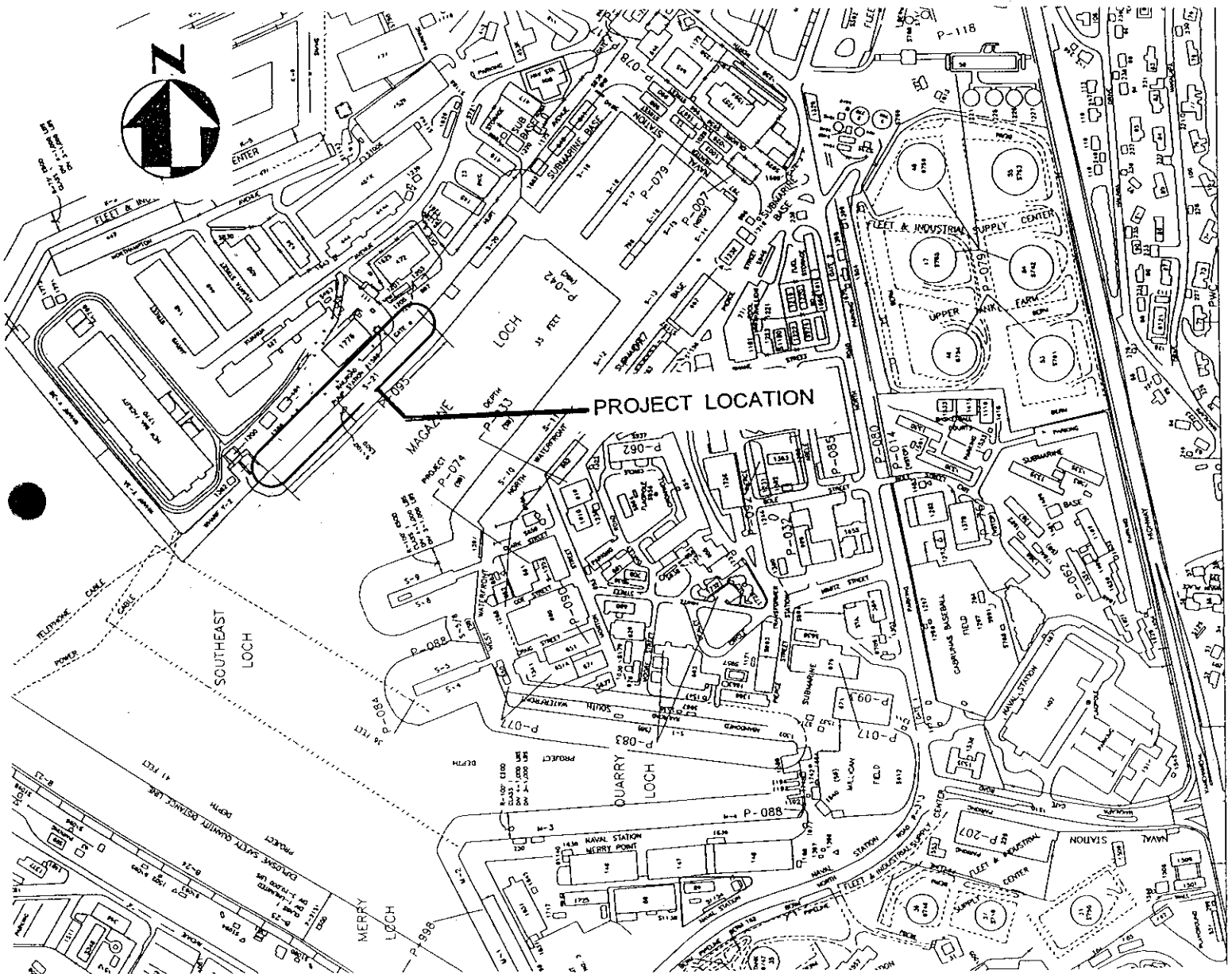
Significance: The Naval Base at Pearl Harbor was designated as a National Historic Landmark in 1964, due to the crucial role it played in the Nation's defense during the twentieth century and the calamitous events which occurred on December 7, 1941. As a Category 3 historic structure, it has been determined that Wharf S-21 functioned as part of the Pearl Harbor Naval Base, and is only of minor importance to the historic character of the National Historic Landmark.

Report Prepared by: Warren Yap, Architect  
Navy Public Work Center  
Project Development Branch  
Pearl Harbor, Hawaii 96860-5470

Date: December 1996

- I. DESCRIPTION: Wharf S-21 is constructed of a reinforced concrete deck slab, bents, beams and piles. Deck thickness varies from 10 inches to 27 inches, the bents are 24 inches wide by 36 inches deep and spaced at 12 feet on centers. The wharf is supported by 18-inch square concrete piles, rated at 40 ton capacity. A timber pile fender system runs along the entire length of the wharf. Wharf S-21 is 45 feet wide by 836 feet long with an area of 4180 square yards, and average about 8 feet above the water surface.
- II. HISTORY: The Naval Base at Pearl Harbor was designated as a National Historic Landmark in 1964, due to the crucial role it played in the Nation's defense during the twentieth century and the calamitous events which occurred on December 7, 1941. As a Category 3 historic structure, it has been determined that Wharf S-21, which was built in 1944, functioned as part of the Pearl Harbor Naval Base, and is only of minor importance to the historic character of the National Historic Landmark.
- III. PROJECTS: Special Project RC4-86 "REPAIR AND UPGRADE WHARF S-20" includes Wharf S-21 and proposes to repair the damaged and deteriorated concrete piles, caps, bents and beams, and the spalls and cracks on the deck. Special Project R15-94 "REPAIR FENDER PILES, WHARF S-21" proposes to replace the damaged and deteriorated timber pile fender system with a pneumatic fender system, which consists of submerged pneumatic rubber fenders, backing assemblies, and prestressed concrete fender piles.

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VICINITY		MAP
NOT	TO	SCALE